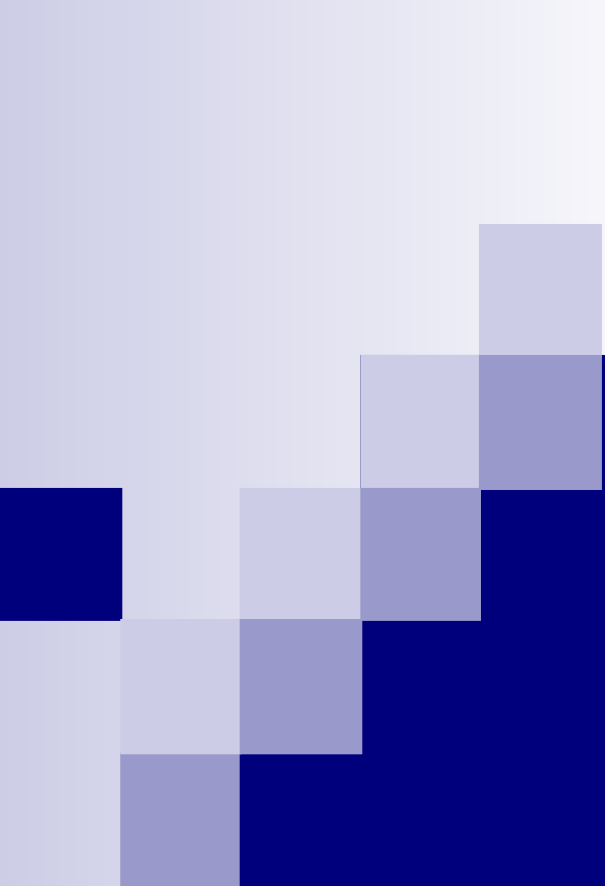




ADTPro: Apple Old Skool

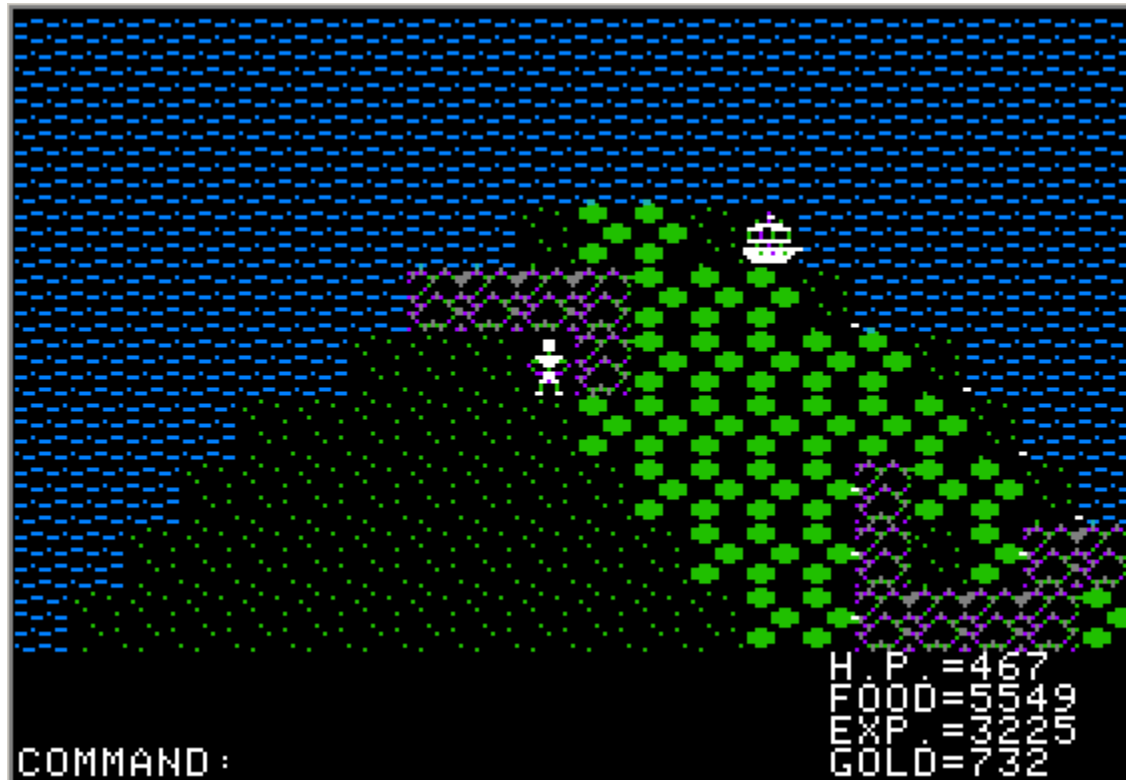
David Schmidt
October, 2007

Introduction to ADTPro

- ADTPro has two roles in life:
 - Bootstrapping Apple][s with zero software
 - Transferring virtual/real floppy disk images
- Written in Java and 6502 Assembly
 - Client runs on Apple][computers
 - Server runs on "modern" computers
 - Connections can be serial, Ethernet or audio
- ADTPro is open source software

Why Would I Want to Do This?

- Do you really need to ask?

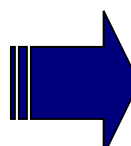


Of Chickens and Eggs

- So you got your Apple out of the closet, eBay, or dumpster... but no disks!



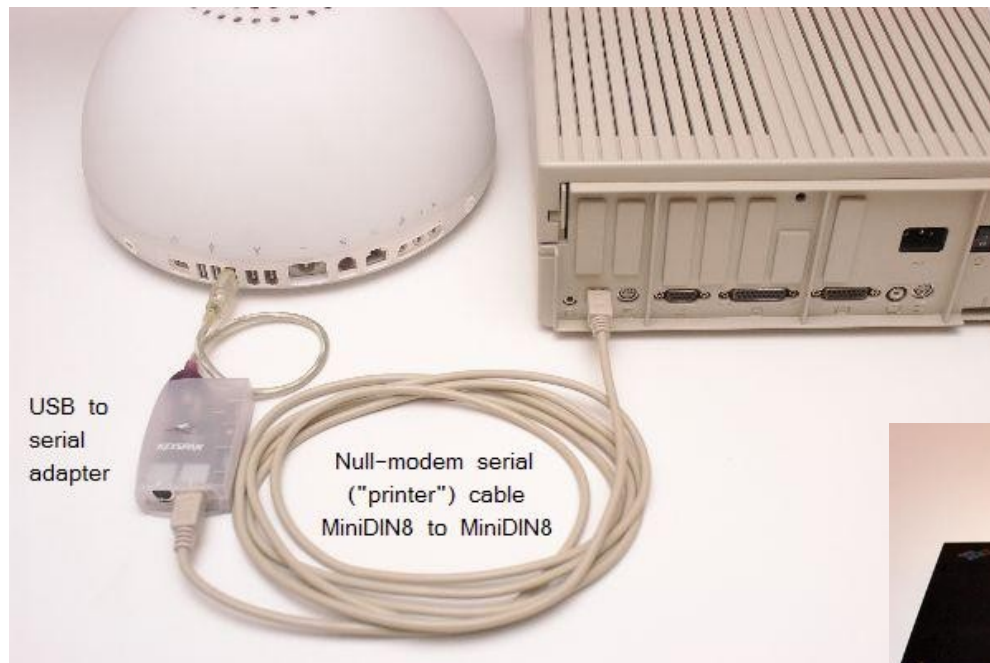
???



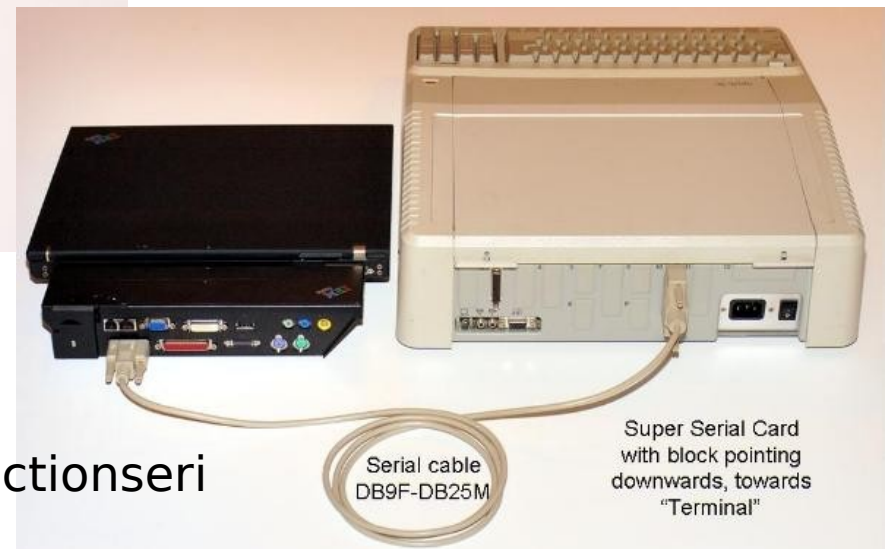
???



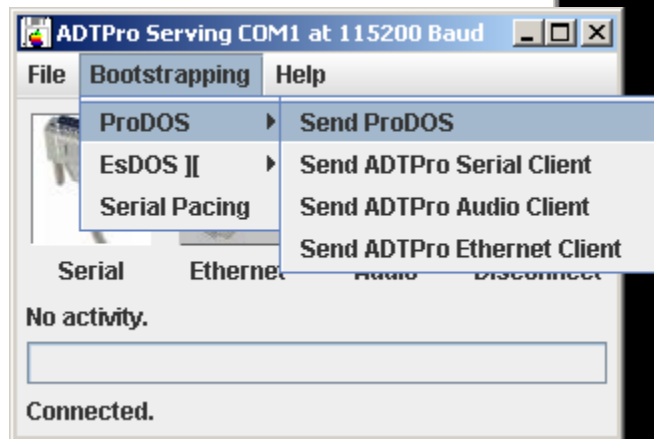
Step 1: Connect Serial Ports



More examples:
<http://adtpro.sourceforge.net/connectionserial.html>



Step 2: Send Software



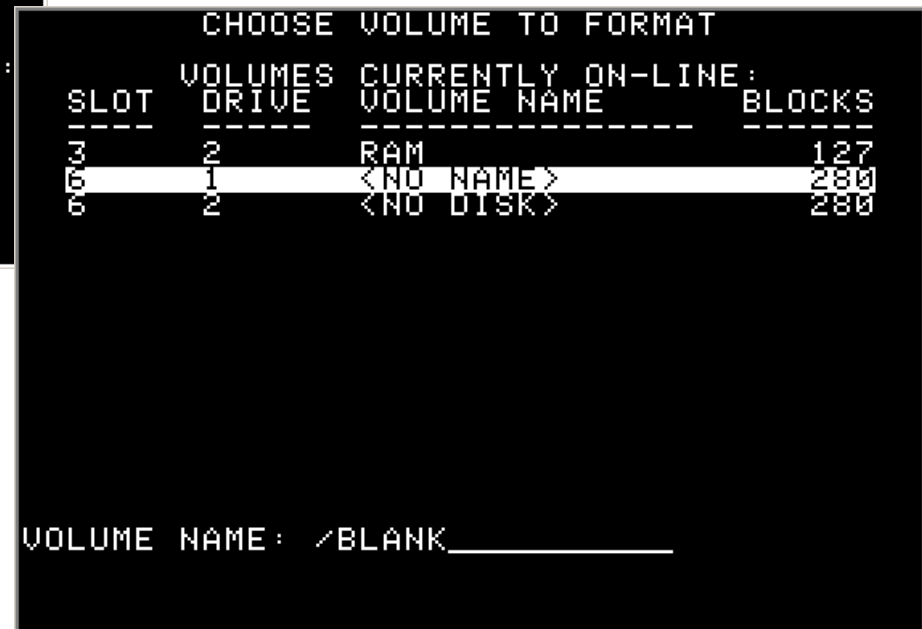
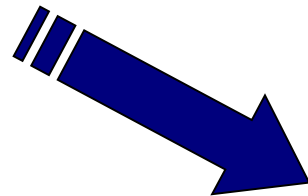
```
]IN#2  
] <- CTRL-A  
APPLE SSC:14B
```

```
]CALL -151  
#2000:4C 06 20 EE F2 21 A5 43 8D 7D  
#200A:22 20 EB 25 AE 89 22 AC 8A 22  
#2014:20 26 29 B0 23 A0 00 A9 FF 8D  
#201E:FF BF 4D FF BF 38 D0 28 8D FF  
#2028:BF AD FF BF D0 20 AD 82 C0 20  
#2032:59 25 B0 06 A5 0C 29 20 D0 03  
#203C:4C 48 22 AE 8B 22 AC 8C 22 20  
#2046:26 29 AD FF BF 8D F4 FD B0 6A  
#2050:AD 82 C0 AE B3 FB E0 06 D0 42  
#205A:A9 E0 2C C0 FB 08 A5 0C 29 37  
#
```

Intermission: Platform Support

- OSX, Linux, Windows, OS/2
- Any Apple][with 64k of memory
 - Non-plus, +, //e, IIc, IIgs, Laser 128, Franklin
- Serial Connections
 - Apple: Super Serial Card, built-in serial ports
 - Host: Native serial ports, USB dongles
- UDP with A2RetroSystems' Uthernet Card
- Audio via cassette in/out

Step 3: Format a Floppy

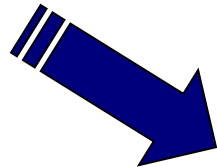


Step 4: Make ADTPro Disk

```
ADT PRO
V.F.M

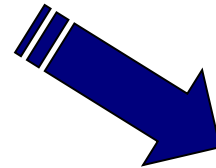
<S>END <R>ECEIVE <D>IR <B>ATCH <C>D
<V>OLUMES CONF<G> <F>ORMAT <?> <Q>UIT:

FILENAME: MYDISK.DSK*
```



```
ADT PRO
V.F.M
RECEIVING BLOCK 00020 OF 00280

_____
|_____U|
|_____|
|_____|
```



```
ADT PRO
V.F.M
WRITING BLOCK 00280 OF 00280

_____
|_____|
|_____|

COMPLETE!
PRESS A KEY TO CONTINUE...
```

Step 5: Transfer, Relish Victory

- Download disk images from the internet
- Transfer to Apples, and play!
- Archive your a





Review: Bootstrapping 101

- Connect serial (or audio!) ports
- Send ProDOS kernel memory image
- Send ADTPro program memory image
- Format a floppy
- Send full ADTPro disk image
- Reboot – relish the victory!

Resources

- ADTPro project page: walkthroughs, etc.
 - <http://adtpro.sourceforge.net>
- Using an Apple][as a terminal:
 - <http://www.dataswamp.net/apple2eserialterm/>
- Super Serial Cards for sale:
 - <http://www.mcpcb.com/html/ap2ior1.html>

Emulators

- Virtual][: <http://www.virtuali>



- Sweet 16:
<http://www.sheppyware.net/software>



←→

↺

✕

🏠

<http://adtpro.sourceforge.net/>

↻

Google

🔍

Getting Started Latest Headlines ▾

Apple Disk Transfer ProDOS

Last Published: Sun Oct 07 10:59:13 EDT 2007

Sourceforge Project Page | Download

ADTPro

[Main](#)

[Credits](#)[Download](#)

Configuration

▶ [Serial](#)

[Ethernet](#)

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Operation

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Resources

[French Language](#)[Korean Language](#)[Apple II WebRing](#)

Minutiae

▶ [Release History](#)[Protocol](#)[Developing](#)

SOURCEFORGE.NET®

ADTPro

Apple Disk Transfer ProDOS (ADTPro) transfers diskettes and logical disk images between Apple][-era computers and the modern world. If you're familiar with the [original ADT](#), ADTPro extends ADT's reach by working with more logical disk formats, drive types, communications devices, and host operating systems.

There is a host (server) component that runs on modern computers with Java, and an Apple II (client) component that runs on any Apple II compatible computer with at least 64k of memory:

Serial

Ethernet

Audio

Disconnect

Request: image from Apple to host

C:\ADTPro-v.r.m.dsk

ADTPro Serving COM1 at 115200 Baud

File Bootstrapping Help

Ethernet

Audio

Disconnect

Request: image from Apple to host

C:\ADTPro-v.r.m.dsk

ADT PRO

V.R.M

READING BLOCK 00014 OF 00280

R

14